

0052044

Environmental Restoration Contractor **ERC Team**  
**Interoffice Memorandum**

Job No. 22192  
Written Response Required? NO  
Closes CCN: N/A  
OU: N/A  
TSD: N/A  
ERA: N/A  
Subject Code: 8960

TO: Document and Information Services  
H0-09

DATE: June 5, 1997

COPIES: See Below

FROM: R. S. Edrington *RSE*  
100 Area Groundwater Project  
H9-01/372-9578

SUBJECT: **100-HR-3 AND 100-KR-4 OPERABLE UNIT INTERIM ACTION MONITORING ANALYSES RESULTS**

The purpose of this memorandum is to provide the results of onsite chromate analyses for the 100-HR-3 and 100-KR-4 Operable Unit interim action monitoring. Attached are the hard copies of results of the analyses performed on May 28 and 29, 1997, along with the corresponding Chain-of-Custody/Sample Analysis Request Forms.

RSE:mjf

Attachments: On-Site Chromate Analysis Data Reports  
Chain-of-Custody/Sample Analysis Requests  
Groundwater Sample Reports

- Copies
- J. V. Borghese H9-03, w/a
  - J. M. Faurote H9-01, w/a
  - R. L. Jackson H9-02, w/a
  - M. C. Kelly H9-01, w/a
  - A. J. Knepp H0-19, w/o
  - J. A. Lerch B1-35, w/a



**ON-SITE CHROMATE ANALYSIS DATA REPORTS**

# On-Site Chromate Analysis Data Report

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	CrVI (mg/L)	Analysis Comments
Field Lab	N/A	N/A	N/A	N/A	N/A	Water	5/28/97	1301	JMF	0.049	QC-01*
Field Lab	N/A	N/A	N/A	N/A	N/A	Water	5/28/97	1310	JMF	0.000	QC-02*
D8-70 54'	B0K5K8	C97-021	5/28/97	1100	DRB	Water	5/28/97	1311	JMF	0.034	
D8-70 50'	B0K5K7	C97-021	5/28/97	1052	DRB	Water	5/28/97	1340	JMF	0.051	
D8-68	B0KC10	C97-021	5/28/97	927	DRB	Water	5/28/97	1342	JMF	0.023	
D8-68 (split)	B0KC10	C97-021	5/28/97	927	DRB	Water	5/28/97	1410	JMF	0.019	Split
D8-69	B0KC11	C97-021	5/28/97	1012	DRB	Water	5/28/97	1353	JMF	0.034	
D8-69 (Dup)	B0KC12	C97-021	5/28/97	1012	DRB	Water	5/28/97	1356	JMF	0.036	

Analyst: *JM Faurote*

Date: 5/28/97

**NOTES:**

\* QC-01 is the 50 ppb standard for initial calibration and QC-02 is the D.I. Water blank

Analyses performed to Procedure BHI-EE-05, FSP 1.17

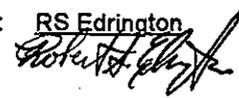
All activities associated with the sample analysis recorded in Logbook EL-1357, Page 19

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**On-Site Chromate Analysis  
Data Report**

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	CrVI (mg/L)
Field Lab	N/A	N/A	N/A	N/A	N/A	Water	5/29/97	1441	RSE	0.048
Field Lab	N/A	N/A	N/A	N/A	N/A	Water	5/29/97	1441	RSE	0.051
Field Lab	N/A	N/A	N/A	N/A	N/A	Water	5/29/97	1443	RSE	0.000
K-112A	B0L018	C97-019	5/28/97	1315	DRB	Water	5/29/97	1510	RSE	0.021
K-112A	B0L018	C97-019	5/28/97	1315	DRB	Water	5/29/97	1510	RSE	0.019
K-114A	B0L019	C97-019	5/29/97	905	RTS	Water	5/29/97	1513	RSE	0.044
K-114A	B0L019	C97-019	5/29/97	905	RTS	Water	5/29/97	1513	RSE	0.035
K-117A(30')	B0L020	C97-019	5/29/97	937	RTS	Water	5/29/97	1532	RSE	0.049
K-117A(30')	B0L020	C97-019	5/29/97	907	RTS	Water	5/29/97	1532	RSE	0.055
K-117A(40')	B0L021	C97-019	5/29/97	952	RTS	Water	5/29/97	1534	RSE	0.041
K-117A(40')	B0L021	C97-019	5/29/97	952	RTS	Water	5/29/97	1534	RSE	0.045
K-117A(54')	B0L022	C97-019	5/29/97	1003	RTS	Water	5/29/97	1535	RSE	0.040
K-117A(54')	B0L022	C97-019	5/29/97	1003	RTS	Water	5/29/97	1535	RSE	0.044
K-117A(64')	B0L023	C97-019	5/29/97	1014	RTS	Water	5/29/97	1537	RSE	0.043
K-117A(64')	B0L023	C97-019	5/29/97	1014	RTS	Water	5/29/97	1537	RSE	0.036
Field Lab	N/A	N/A	N/A	N/A	N/A	Water	5/29/97	1538	RSE	0.051
K-117A(MS)	B0L024	C97-019	5/29/97	1014	RTS	Water	5/29/97	1546	RSE	0.023
K-117A(MS)	B0L024	C97-019	5/29/97	1014	RTS	Water	5/29/97	1546	RSE	0.021
K-117A(MSD)	B0L025	C97-019	5/29/97	1014	RTS	Water	5/29/97	1547	RSE	0.022
K-117A(MSD)	B0L025	C97-019	5/29/97	1014	RTS	Water	5/29/97	1547	RSE	0.020
K-117A(30'D)	B0L026	C97-019	5/29/97	937	RTS	Water	5/29/97	1548	RSE	0.051
K-117A(30'D)	B0L026	C97-019	5/29/97	937	RTS	Water	5/29/97	1548	RSE	0.053
K-117A(40'D)	B0L027	C97-019	5/29/97	952	RTS	Water	5/29/97	1549	RSE	0.045
K-117A(54'D)	B0L028	C97-019	5/29/97	1003	RTS	Water	5/29/97	1549	RSE	0.039
K-117A(64'D)	B0L029	C97-019	5/29/97	1014	RTS	Water	5/29/97	1601	RSE	0.029
K-117A(64'D)	B0L029	C97-019	5/29/97	1014	RTS	Water	5/29/97	1601	RSE	0.031
K-18	B0L032	C97-019	5/29/97	1135	RTS	Water	5/29/97	1602	RSE	0.037
K-18	B0L032	C97-019	5/29/97	1135	RTS	Water	5/29/97	1602	RSE	0.041
K-20	B0L033	C97-019	5/29/97	1210	RTS	Water	5/29/97	1603	RSE	0.109
K-20	B0L033	C97-019	5/29/97	1210	RTS	Water	5/29/97	1604	RSE	0.106
K-20	B0L033	C97-019	5/29/97	1210	RTS	Water	5/29/97	1604	RSE	0.106

Analyst: RS Edrington



Date: 5/29/97

**NOTES:**

\*Not a HEIS Number, QC-S1&S2 are the 50 ppb standard and split samples for initial calibration.

QC-B1 is the Sample of D.I. Water run as an initial blank

QC-S3 was a second 50 ppb standard run for the new batch of ampuls

Location designations: (xx') = depth sample take, D = Duplicat, MS = Matrix spike, MSD = Matrix Spike Duplicate.

Analyses performed to Procedure BHI-EE-05, FSP 1.17

All activities associated with the sample analysis recorded in Logbook EL-1357, Page 21

**CHAIN-OF-CUSTODY/SAMPLE ANALYSIS REQUESTS**

Collector <b>D.R. BREWINGTON (RFS)</b>	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DI.	Data Turnaround Field
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Project Designation 100-HR-3 (D) IRM Groundwater Sampling FY1997	Sampling Location 100-D	SAF No. C97-021
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Ice Chest No. <i>N117</i>	Field Logbook No. <i>W11C-N-205-67</i>	Method of Shipment GOVT. VEHICLE
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Shipped To Mobile Laboratory	Offsite Property No. <i>NH</i>	Bill of Lading/Air Bill No. <i>N117</i>
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POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																	
	Type of Container	G/P																	
	No. of Container(s)	1																	

Special Handling and/or Storage	Volume <i>60ml 5-28-97</i>																		
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SAMPLE ANALYSIS	Chromium - Hex																		
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Sample No.	Matrix *	Sample Date	Sample Time																
BOKC10 (F)	Water	5-28-97	0926	✓															

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES	Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue Wl - Wipe L - Liquid V - Vegetation X - Other
	Relinquished By <i>D.R. Brewington</i>	Date/Time <i>11:45 5/28/97</i>	Received By <i>[Signature]</i>	Date/Time <i>5/28/97 1148</i>		
	Relinquished By	Date/Time	Received By	Date/Time		
	Relinquished By	Date/Time	Received By	Date/Time		
	Relinquished By	Date/Time	Received By	Date/Time		

LABORATORY SECTION	Received By	Title	Date/Time
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FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time
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Collector: **D.R. BREWINGTON (RFS)** *D.R. Brewington*      Company Contact: **J.H. KESSNER**      Telephone No.: **(509) 372-9538**      Project Coordinator: **Stewart, DL**      Data Turnaround Field

Project Designation: **100-HR-3 (D) IRM Groundwater Sampling FY 1997**      Sampling Location: **100-D**      SAF No.: **C97-021**

Ice Chest No.: **NA**      Field Logbook No.: **W47-A-205-#63**      Method of Shipment: **GOVT. VEHICLE**

Shipped To: **Mobile Laboratory**      Offsite Property No.: **NA**      Bill of Lading/Air Bill No.: **NA**

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>	Preservation	None							
	Type of Container	G/P							
	No. of Container(s)	1							

Special Handling and/or Storage: **Volume** *80ml RI 5*  
*80 ml 5-28-97*

<b>SAMPLE ANALYSIS</b>	Chromium - Hex								
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Sample No.	Matrix *	Sample Date	Sample Time									
BOKC12 (F)	Water	5-28-97	1012	✓								

<b>CHAIN OF POSSESSION</b>	<b>Sign/Print Names</b>	<b>SPECIAL INSTRUCTIONS</b> TOTAL ACTIVITY EXEMPTION APPLIES		<b>Matrix *</b>
Relinquished By: <i>Denise R. Brewington</i>	Date/Time: <i>11:45 5/28/97</i>	Received By: <i>J. Mauro</i>	Date/Time: <i>5/28/97 1145</i>	S = Soil
Relinquished By:	Date/Time:	Received By:	Date/Time:	SE = Sediment
Relinquished By:	Date/Time:	Received By:	Date/Time:	SO = Solid
Relinquished By:	Date/Time:	Received By:	Date/Time:	SL = Sludge
Relinquished By:	Date/Time:	Received By:	Date/Time:	W = Water
Relinquished By:	Date/Time:	Received By:	Date/Time:	O = Oil
Relinquished By:	Date/Time:	Received By:	Date/Time:	A = Air
Relinquished By:	Date/Time:	Received By:	Date/Time:	DS = Drum Solids
Relinquished By:	Date/Time:	Received By:	Date/Time:	DL = Drum Liquids
Relinquished By:	Date/Time:	Received By:	Date/Time:	T = Tissue
Relinquished By:	Date/Time:	Received By:	Date/Time:	WI = Wipe
Relinquished By:	Date/Time:	Received By:	Date/Time:	L = Liquid
Relinquished By:	Date/Time:	Received By:	Date/Time:	V = Vegetation
Relinquished By:	Date/Time:	Received By:	Date/Time:	X = Other

**LABORATORY SECTION** Received By: \_\_\_\_\_ Title: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**FINAL SAMPLE DISPOSITION** Disposal Method: \_\_\_\_\_ Disposed By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Collector **D.R. BREWINGTON (RFS) DRB** Company Contact **J.H. KESSNER** Telephone No. **(509) 372-9538** Project Coordinator **Stewart, DL** Data Turnaround **Field**

Project Designation **100-HR-3 (D) IRM Groundwater Sampling FY1997** Sampling Location **100-D** SAF No. **C97-021**

Ice Chest No. **NA** Field Logbook No. **WHC-14-205 # 0.3** Method of Shipment **GOVT. VEHICLE**

Shipped To **Mobile Laboratory** Offsite Property No. **NA** Bill of Lading/Air Bill No. **NA**

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																	
	Type of Container	GP																	
	No. of Container(s)	3																	

Special Handling and/or Storage **Volume** 40ml

SAMPLE ANALYSIS		Chromium - Hex																	
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Sample No.	Matrix *	Sample Date	Sample Time																
BOK5K7	Water	5/28/97	1052	✓															
BOK5K8	Water	5/28/97	1100	✓															
<del>BOKG43</del>	<del>Water</del>	<del>5/28/97</del>	<del>1148</del>	<del>✓</del>															
	NO SAMPLE OBTAINED	5/28/97 DRB																	

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES										Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other	
	Relinquished By	Date/Time	Received By	Date/Time												
	<i>D.R. Brewington</i>	5/28/97 11:45	<i>J.H. Kessner</i>	5/28/97 1148												
	Relinquished By	Date/Time	Received By	Date/Time												
	Relinquished By	Date/Time	Received By	Date/Time												

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Collector <b>D.R. BREWINGTON (RFS)</b>	Company Contact JH KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
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Project Designation 100-KR-4 IRM Groundwater Sampling FY1997	Sampling Location 100-K	SAF No. C97-019
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Ice Chest No. NA	Field Logbook No. WHC-4-205 #63	Method of Shipment GOVT. VEHICLE
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Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA
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POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																		
	Type of Container	G/P																		
	No. of Container(s)	1																		

Special Handling and/or Storage	Volume	60ml																		
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SAMPLE ANALYSIS		Chromium - Hex	(F)																	
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Sample No.	Matrix *	Sample Date	Sample Time																	
BOL018	Water	5/28/97	1315	✓																

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES												Matrix *			
	Relinquished By <i>D.R. Brewington</i>	Date/Time 5/29/97 1153	Received By <i>Robert E. ...</i>	Date/Time 5/29/97 1157													S = Soil	
	Relinquished By	Date/Time	Received By	Date/Time													SE = Sediment	
	Relinquished By	Date/Time	Received By	Date/Time													SO = Solid	
Relinquished By	Date/Time	Received By	Date/Time													SL = Sludge		
Relinquished By	Date/Time	Received By	Date/Time													W = Water		
Relinquished By	Date/Time	Received By	Date/Time													O = Oil		
Relinquished By	Date/Time	Received By	Date/Time													A = Air		
Relinquished By	Date/Time	Received By	Date/Time													DS = Drum Solids		
Relinquished By	Date/Time	Received By	Date/Time													DL = Drum Liquids		
Relinquished By	Date/Time	Received By	Date/Time													T = Tissue		
Relinquished By	Date/Time	Received By	Date/Time													WI = Wipe		
Relinquished By	Date/Time	Received By	Date/Time													L = Liquid		
Relinquished By	Date/Time	Received By	Date/Time													V = Vegetation		
Relinquished By	Date/Time	Received By	Date/Time													X = Other		

LABORATORY SECTION	Received By	Title	Date/Time
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FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time
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Collector <b>PT SICKLE (RFS)</b>	Company Contact JH KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DI.	Data Turnaround Field
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Project Designation 100-KR-4 IRM Groundwater Sampling FY 1997	Sampling Location 100-K	SAF No. C97-019
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Ice Chest No. <b>NA</b>	Field Logbook No. <b>WHP-N-205#63</b>	Method of Shipment GOVT. VEHICLE
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Shipped To Mobile Laboratory	Offsite Property No. <b>NA</b>	Bill of Lading/Air Bill No. <b>NA</b>
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POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																	
	Type of Container	G/P																	
	No. of Container(s)	1																	

Special Handling and/or Storage	Volume	60ml																	
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SAMPLE ANALYSIS		Chromium - Hex																	
		(F)																	

Sample No.	Matrix *	Sample Date	Sample Time																
BOL019	Water	5/29/97	0905	✓															

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
	Relinquished By <b>PT SICKLE (RFS)</b>	Date/Time 5-29-97 1200	Received By <i>[Signature]</i>	Date/Time 5/29/97 1200		
	Relinquished By	Date/Time	Received By	Date/Time		
	Relinquished By	Date/Time	Received By	Date/Time		
	Relinquished By	Date/Time	Received By	Date/Time		

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Collector: RT SICKLE (RFS)      Company Contact: JH KESSNER      Telephone No.: (509) 372-9538      Project Coordinator: Stewart, DL      Data Turnaround: Field

Project Designation: 100-KR-4 IRM Groundwater Sampling FY1997      Sampling Location: 100-K      SAF No.: C97-019

Ice Chest No.: NA      Field Logbook No.: WPC-N-205 #63      Method of Shipment: GOVT. VEHICLE

Shipped To: Mobile Laboratory      Offsite Property No.: NA      Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																	
	Type of Container	G/P																	
	No. of Container(s)	3																	

Special Handling and/or Storage:      Volume: 40ml

SAMPLE ANALYSIS				Chromium - Hex															
				(F)															

Sample No.	Matrix *	Sample Date	Sample Time																
BOL020	Water	5/29/97	0937	✓															
BOL021	Water	↓	0952	✓															
BOL022	Water		1003	✓															
BOL023	Water		1014	✓															

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS												Matrix *
				TOTAL ACTIVITY EXEMPTION APPLIES												
Relinquished By: <i>[Signature]</i>	Date/Time: 5-29-97 1200	Received By: <i>[Signature]</i>	Date/Time: 5/29/97 1207													S = Soil
Relinquished By:	Date/Time:	Received By:	Date/Time:													SE = Sediment
Relinquished By:	Date/Time:	Received By:	Date/Time:													SO = Solid
Relinquished By:	Date/Time:	Received By:	Date/Time:													SL = Sludge
Relinquished By:	Date/Time:	Received By:	Date/Time:													W = Water
Relinquished By:	Date/Time:	Received By:	Date/Time:													O = Oil
Relinquished By:	Date/Time:	Received By:	Date/Time:													A = Air
Relinquished By:	Date/Time:	Received By:	Date/Time:													DS = Drum Solids
Relinquished By:	Date/Time:	Received By:	Date/Time:													DL = Drum Liquids
Relinquished By:	Date/Time:	Received By:	Date/Time:													T = Tissue
Relinquished By:	Date/Time:	Received By:	Date/Time:													WI = Wipe
Relinquished By:	Date/Time:	Received By:	Date/Time:													L = Liquid
Relinquished By:	Date/Time:	Received By:	Date/Time:													V = Vegetation
Relinquished By:	Date/Time:	Received By:	Date/Time:													X = Other

LABORATORY SECTION: Received By: \_\_\_\_\_ Title: \_\_\_\_\_ Date/Time: \_\_\_\_\_

FINAL SAMPLE DISPOSITION: Disposal Method: \_\_\_\_\_ Disposed By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Collector <b>HT SICKLE (HFS)</b>	Company Contact <b>JH KESSNER</b>	Telephone No. <b>(509) 372-9538</b>	Project Coordinator <b>Stewart, DL</b>	Data Turnaround <b>Field</b>
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Project Designation <b>100-KR-4 IRM Groundwater Sampling FY1997</b>	Sampling Location <b>100-K</b>	SAF No. <b>C97-019</b>
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Ice Chest No. <b>NA</b>	Field Logbook No. <b>WTC-A-205-#63</b>	Method of Shipment <b>GOVT. VEHICLE</b>
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Shipped To <b>Mobile Laboratory</b>	Offsite Property No. <b>NA</b>	Bill of Lading/Air Bill No. <b>NA</b>
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POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																		
	Type of Container	G/P																		
	No. of Container(s)	1																		

Special Handling and/or Storage	Volume	60ml																		
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SAMPLE ANALYSIS		Chromium - Hex																		
		(F)																		

Sample No.	Matrix *	Sample Date	Sample Time																	
BOL024	Water	5/29/97	1014	✓																

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES												Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other		
	Relinquished By <b>HT SICKLE (HFS)</b>	Date/Time <b>5-29-97 1200</b>	Received By <i>[Signature]</i>	Date/Time <b>5/29/97 1200</b>													
	Relinquished By	Date/Time	Received By	Date/Time													
	Relinquished By	Date/Time	Received By	Date/Time													

LABORATORY SECTION	Received By	Title	Date/Time
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FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time
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Collector <b>RT SICKLE (RFS)</b>	Company Contact <b>JH KESSNER</b>	Telephone No. <b>(509) 372-9538</b>	Project Coordinator <b>Stewart. DL</b>	Data Turnaround <b>Field</b>
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Project Designation <b>100-KR-4 IRM Groundwater Sampling FY1997</b>	Sampling Location <b>100-K</b>	SAF No. <b>C97-019</b>
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Ice Chest No. <b>NA</b>	Field Logbook No. <b>WAC-N-205#63</b>	Method of Shipment <b>GOVT. VEHICLE</b>
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Shipped To <b>Mobile Laboratory</b>	Offsite Property No. <b>NA</b>	Bill of Lading/Air Bill No. <b>NA</b>
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POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																		
	Type of Container	G/P																		
	No. of Container(s)	1																		
	Special Handling and/or Storage	Volume	60ml																	

SAMPLE ANALYSIS		Chromium - Hex																		
		(F)																		

Sample No.	Matrix *	Sample Date	Sample Time																	
BOL025	Water	5/29/97	1014	✓																

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
	Relinquished By <b>RT SICKLE (RFS)</b>	Date/Time <b>5-29-97 1200</b>	Received By <i>[Signature]</i>	Date/Time <b>5/29/97 1201</b>		
	Relinquished By	Date/Time	Received By	Date/Time		
	Relinquished By	Date/Time	Received By	Date/Time		
	Relinquished By	Date/Time	Received By	Date/Time		

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Collector **RT SICKLE (RFS)** Company Contact **JH KESSNER** Telephone No. **(509) 372-9538** Project Coordinator **Stewart, DL** Data Turnaround **Field**

Project Designation **100-KR-4 IRM Groundwater Sampling FY1997** Sampling Location **100-K** SAF No. **C97-019**

Ice Chest No. **NA** Field Logbook No. **WHP-N-205 #103** Method of Shipment **GOVT. VEHICLE**

Shipped To **Mobile Laboratory** Offsite Property No. **NA** Bill of Lading/Air Bill No. **AA**

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																		
	Type of Container	GP																		
	No. of Container(s)	3																		

Special Handling and/or Storage **Volume** 40ml

SAMPLE ANALYSIS Chromium Hex (F)

Sample No.	Matrix *	Sample Date	Sample Time																		
BOL026	Water	5/29/97	0937	✓																	
BOL027	Water	↓	0952	✓																	
BOL028	Water		1003	✓																	
BOL029	Water		1014	✓																	

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By <b>RT SICKLE (RFS)</b>	Date/Time <b>5-29-97 1200</b>	Received By <i>[Signature]</i>	Date/Time <b>5/29/97 1204</b>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS  
TOTAL ACTIVITY EXEMPTION APPLIES

Matrix \*  
 S = Soil  
 SE = Sediment  
 SO = Solid  
 SL = Sludge  
 W = Water  
 O = Oil  
 A = Air  
 DS = Drum Solids  
 DL = Drum Liquids  
 T = Tissue  
 WI = Wipe  
 L = Liquid  
 V = Vegetation  
 X = Other

LABORATORY SECTION Received By \_\_\_\_\_ Title \_\_\_\_\_ Date/Time \_\_\_\_\_

FINAL SAMPLE DISPOSITION Disposal Method \_\_\_\_\_ Disposed By \_\_\_\_\_ Date/Time \_\_\_\_\_

Collector: **RY SICKLE (RFS)** Company Contact: **JH KESSNER** Telephone No.: **(509) 372-9538** Project Coordinator: **Stewart, DL** Data Turnaround: **Field**

Project Designation: **100-KR-4 IRM Groundwater Sampling FY1997** Sampling Location: **100-K** SAF No.: **C97-019**

Ice Chest No.: **NA** Field Logbook No.: **WTR-N-205 # 63** Method of Shipment: **GOVT. VEHICLE**

Shipped To: **Mobile Laboratory** Offsite Property No.: **NA** Bill of Lading/Air Bill No.: **NA**

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																		
	Type of Container	GP																		
	No. of Container(s)	1																		

Special Handling and/or Storage: **Volume** 60ml

SAMPLE ANALYSIS	Chromium - Hex																			
	(F)																			

Sample No.	Matrix *	Sample Date	Sample Time																	
B0L032	Water	5/29/97	1135	✓																

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES												Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other	
	Relinquished By: <i>[Signature]</i>	Date/Time: <b>5-29-97 1200</b>	Received By: <i>[Signature]</i>	Date/Time: <b>5/29/97 1200</b>														
	Relinquished By:	Date/Time:	Received By:	Date/Time:														
	Relinquished By:	Date/Time:	Received By:	Date/Time:														
	Relinquished By:	Date/Time:	Received By:	Date/Time:														

LABORATORY SECTION Received By: \_\_\_\_\_ Title: \_\_\_\_\_ Date/Time: \_\_\_\_\_

FINAL SAMPLE DISPOSITION Disposal Method: \_\_\_\_\_ Disposed By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Collector	Company Contact JH KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
Project Designation 100-KR-4 IRM Groundwater Sampling FY1997	Sampling Location 100-K	SAF No. C97-019		
Ice Chest No. <i>NA</i>	Field Logbook No. <i>WTC-N-205 # 63</i>	Method of Shipment GOVT. VEHICLE		
Shipped To Mobile Laboratory	Offsite Property No. <i>NA</i>	Bill of Lading/Air Bill No. <i>NA</i>		

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None																		
	Type of Container	G/P																		
	No. of Container(s)	1																		
Special Handling and/or Storage	Volume	60ml																		

SAMPLE ANALYSIS		Chromium - Hex																		
		(F)																		

Sample No.	Matrix *	Sample Date	Sample Time																	
BOL033	Water	5/29/97	12:10	✓																

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPTION APPLIES												Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
	Relinquished By <i>HT SICKLE (AFS)</i>	Date/Time <i>5-29-97 1225</i>	Received By <i>Robert S. Edgington</i>	Date/Time <i>5/29/97 1226</i>													
	Relinquished By	Date/Time	Received By	Date/Time													
	Relinquished By	Date/Time	Received By	Date/Time													
	Relinquished By	Date/Time	Received By	Date/Time													

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

046185

**GROUNDWATER SAMPLE REPORTS**

# GROUNDWATER SAMPLE REPORT

Project: 100-HR-3 (D) IRM Groundwater Sampling FY1997		Date: 5-28-97	Page 1 of 1
Sampling CY Quarter: 1997/2		Calculations:	
Well Number: 199-D8-68		$\frac{48}{5} = 14.6 \text{ mins}$ <small>9pm</small>	
Total Purge Volume (gal): 115 gals	Purge Flow Rate (gal/min): 5		
Hydrostar <input type="checkbox"/> Submersible <input checked="" type="checkbox"/>	Time on: 0903 / H <sub>2</sub> O / PURGE / SAMPLE / PURGE OFF 0905 / 115 gals / 2926 / 0928		

## SAMPLES COLLECTED

BOKC10 Filter Mobile Laboratory  
 5/28/97 1.60ml G/P Chromium - Hex (None)  
 No 1.20ml 60ml

Total Activity <sup>ppb 4/27/97</sup>  
 Reg Truck.  
 HPT Required

B.R. BREWINGTON (RFS) *DRB*  
 COLLECTOR  
 RT SICKLE (RFS)

*dc Not Listed*

Total No. Bottles: 1

FIELD MEASUREMENTS								
Water Level (TOC): 52.20 <i>pp</i>					pH Serial No.: 97060000 8538			
Cond./Therm. Serial No.: 97060001 7508 <i>8538</i>					D. O. Serial No.: <i>NA</i>			
Time	0906	0910	0915	0918	0922	0925	0927	
pH	7.86	8.00	8.11	8.14	8.14	8.18	8.18	
Temp. (°C)	11.4	11.6	11.8	11.8	11.8	11.8	12.2	
Cond. (µs/cm)	162	162	161	161	161	161	160	
Turb. (NTU)	1.16					2.29		
D. O. (mg/L)								

## FIELD OBSERVATIONS

Weather: 65°F overcast CALM

General Problems/Unusual Events: \_\_\_\_\_

Equipment Irregularities: pre check pH 7.00 AT 25°C  
std pH 7.00 AT 25°C

Container Irregularities: post pH 7.06 AT 20°C  
std pH 7.02 AT 20°C

Comments: COC #: C97-021-15 Contact B. Bane & E. Henderson / transducer  
No oil shown

Well capped and locked:  Yes  No      Samples preserved with ice:  Yes  No

Samples Surveyed for Gamma Radiation by RPTs:  Yes  No

Data Recorded by: D.R. BREWINGTON (RFS) DRB      5-28-97

Data Checked by: \_\_\_\_\_      \_\_\_\_\_

*Lug Bolt  
 WTC - P. 207 # 63  
 PAB = 83*

# GROUNDWATER SAMPLE REPORT

Project: 100-HR-3 (D) IRM Groundwater Sampling FY1997		Date: 5/28/97	Page 1 of 1
Sampling CY Quarter: 1997/2		Calculations:	
Well Number: 199-D8-69		$87/5 \text{ gpm} = 17.4 \text{ mins}$	
Total Purge Volume (gal): 165	Purge Flow Rate (gal/min): 5		
Hydrostar <input type="checkbox"/> Submersible <input checked="" type="checkbox"/>	Time on:	1001	

### SAMPLES COLLECTED

BOKC11 Filter Mobile Laboratory  
 1:00 ml G/P Chromium - Hex (None)  
 BOKC12 Filter Mobile Laboratory  
 1:00 ml G/P Chromium - Hex (None)

Total Activity <sup>ppm 42.5</sup>  
 Regulated Truck  
 HPT Required  
 collector  
 RT SICKLE (RFS)

Total No. Bottles 2

c/c Not Listed

FIELD MEASUREMENTS										
Water Level (TOC): DD = 38.96 PP					pH Serial No. 970600017508					
Cond./Therm. Serial No.: 920500008538					D. O. Serial No.: NA					
Time	0946	0949	0955	1000	1003	1005	1010	1011	1015	D8 5/28/97
pH	7.19	8.71	7.78	7.88	7.87	7.89	7.86	7.87	7.89	
Temp. (°C)	15.1	14.6	14.6	14.7	14.9	16.1	16.5	16.6	16.5	
Cond. (µs/cm)	194	188	182	181	181	186	187	187	185	
Turb. (NTU)	19.1	27.0	27.0	22.2	14.3	15.7		15.7		
D. O. (mg/L)										

### FIELD OBSERVATIONS

Weather: 65° overcast, wind calm

General Problems/Unusual Events: \_\_\_\_\_

Equipment Irregularities: \_\_\_\_\_

Container Irregularities: \_\_\_\_\_

Comments: COC #: C97-021-16, C97-021-17 (DUP)  
 NO OIL SHOWN Contact B. Bone + E. Henderson / transducer

Well capped and locked:  Yes  No      Samples preserved with ice:  Yes  No

Samples Surveyed for Gamma Radiation by RPTs:  Yes  No

Data Recorded by: D.R. BREWINGTON (RFS) *DRB*      Date: 5/28/97

Data Checked by: \_\_\_\_\_      Date: \_\_\_\_\_

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# GROUNDWATER SAMPLE REPORT

Project: 100-IHR-3 (D) IRM Groundwater Sampling FY1997		Date: <u>5/28/97</u>	Page 1 of 1
Sampling CY Quarter: 1997/2		Calculations: <u>NA</u>	
Well Number: 199-D8-70			
Total Purge Volume (gal): <u>NA</u>	Purge Flow Rate (gal/min): <u>NA</u>		
Hydrostar <input type="checkbox"/> Submersible <input type="checkbox"/> Time on: <u>NA</u>			

### SAMPLES COLLECTED

BOK5K7 Mobile Laboratory  
 3:40ml;G/P Chromium - Hex (None)  
 BOK5K8 Mobile Laboratory  
 3:40ml;G/P Chromium - Hex (None)  
~~BOKC13 Mobile Laboratory  
 3:40ml;G/P Chromium - Hex (None)~~

50'  
54'  
62' NO SAMPLE OBTAINED  
OR 5/28/97

## REGULATED TRUCK HPT

COLLECTOR  
RT SICKLE (RFS)

Total No. Bottles: 9 6  
*OR 5/28/97*

c/c Not Listed

### FIELD MEASUREMENTS

Water Level (TOC): <u>43.61</u>				pH Serial No.: <u>970600017508</u>			
Cond./Therm. Serial No. <u>920500008538</u>				D. O. Serial No.: <u>NA</u>			
Time	<u>1052</u>	<u>1100</u>					
pH	<u>7.55</u>	<u>7.63</u>					
Temp. (°C)	<u>20.1</u>	<u>20.5</u>					
Cond. (µs/cm)	<u>215</u>	<u>214</u>					
Turb. (NTU)							
D. O. (mg/L)							

### FIELD OBSERVATIONS

Weather: 65° OVERCAST, WIND CALM

General Problems/Unusual Events: \_\_\_\_\_

Equipment Irregularities: KABIS TUBE DISCONNECTED LOWER BOTTLE PART FELL TO BOTTOM OF WELL.

Container Irregularities: \_\_\_\_\_

Comments: CQC # C97-021-18 KABIS/3 INTERVALS  
Contact B. Bone + E. Henderson / transducer

PRE PH 7.13 AT 20°C  
STD PH  
POST PH  
STD PH

Well capped and locked:  Yes  No      Samples preserved with ice:  Yes  No

Samples Surveyed for Gamma Radiation by RPTs:  Yes  No

Data Recorded by: D.R. BREWINGTON (RFS) DRB      Date: 5/28/97

Data Checked by: \_\_\_\_\_      Date: \_\_\_\_\_

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# GROUNDWATER SAMPLE REPORT

Project: 100-KR-4 IRM Groundwater Sampling FY1997		Date: <u>5/28/97</u>	Page 1 of 1
Sampling CY Quarter: 1997/2		Calculations: $116/5 = 23.2 \text{ min}$ <small>917</small>	
Well Number: 199-K-112A			
Total Purge Volume (gal): <u>135</u>	Purge Flow Rate (gal/min): <u>5 gpm</u>		
Hydrostar <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Time on: <u>1250</u> / <u>1250</u> / <u>135 gals</u> / <u>1315</u> / <u>1317</u>	<u>1314</u>		

## SAMPLES COLLECTED

BOL018 (Filtered) Mobile Laboratory  
1:60ml;G/P Chromium - Hex (None)

# HPT REGULATED TRUCK

Collector  
RT SICKLE (RFS)

c/c Not Listed

Total No. Bottles: 1

FIELD MEASUREMENTS									
Water Level (TOC): <u>19.83</u> <u>P.P</u>					pH Serial No.: <u>970600017508</u>				
Cond./Therm. Serial No.: <u>920500008538</u>					D. O. Serial No.: <u>NA</u>				
Time	<u>1251</u>	<u>1253</u>	<u>1257</u>	<u>1302</u>	<u>1710</u>	<u>1312</u>	<u>1314</u>	<u>1316</u>	
pH	<u>7.62</u>	<u>7.77</u>	<u>7.90</u>	<u>7.90</u>	<u>7.92</u>	<u>7.92</u>	<u>7.93</u>	<u>7.93</u>	
Temp. (°C)	<u>18.2</u>	<u>18.1</u>	<u>18.2</u>	<u>18.3</u>	<u>18.5</u>	<u>18.4</u>	<u>18.5</u>	<u>18.5</u>	
Cond. (µs/cm)	<u>212</u>	<u>213</u>	<u>213</u>	<u>212</u>	<u>213</u>	<u>213</u>	<u>213</u>	<u>213</u>	
Turb. (NTU)	<u>17.3</u>	<u>18.0</u>	<u>2.10</u>			<u>5.57</u> <small>OK 5/28/97</small>	<u>3.44</u>		1314
D. O. (mg/L)						<u>3.13</u>			
							*		

FIELD OBSERVATIONS	
Weather: <u>OVERCAST, WIND CALM</u>	
General Problems/Unusual Events:	
Equipment Irregularities:	<u>RECALIBRATED → PRE PH 7.00 AT 25°C</u> <u>STD PH 7.00 AT 25°C</u> <u>POST PH NA</u> <u>STD PH NA</u>
Container Irregularities:	
Comments: <u>COC #: C97-019-9</u> <u>No oil sheen</u>	

Well capped and locked: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples preserved with ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LOG BOOK WHC-IV-205 #6.3 Pg 83,84
Samples Surveyed for Gamma Radiation by RPTs: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Data Recorded by: <u>D.R. BREWINGTON (RFS)</u> <u>DRB</u>		<u>5/28/97</u>
Data Checked by: <u>RZ Staffler</u> <u>R.J. Staffler</u>		Date: <u>5-30-97</u>

# GROUNDWATER SAMPLE REPORT

NO DOMI

Project: 100-KR-4 IRM Groundwater Sampling FY1997		Date: 5/29/97	Page 1 of 1
Sampling CY Quarter: 1997/2		Calculations:	
Well Number: 199-K-114A		$91/5 = 18.2 \text{ mins}$	
Total Purge Volume (gal):	Purge Flow Rate (gal/min): 5		
Hydrostar <input type="checkbox"/>	Submersible <input checked="" type="checkbox"/>	Time on: 0845 / H <sub>2</sub> O / PURGE / SAMPLE / PUMP OFF 0845 / 10.594 / 0905 / 0906	

**SAMPLES COLLECTED**

BOL019 (Filtered) Mobile Laboratory  
1,60ml;G/P Chromium - Hex (None)

HPT

REGULATED TRUCK

Collector  
RT SICKLE (RFS)

Total No. Bottles: |

CIC Not Listed

FIELD MEASUREMENTS						
DD = 15.98				Water Level (TOC): 16.85 pp		
Cond./Therm. Serial No.: 920500008538				pH Serial No.: 970600017508		
D. O. Serial No.: NA						
Time	0847	0850	0855	0902	0904	0905
pH	7.26	7.73	7.78	7.86	7.87	7.87
Temp. (°C)	16.8	16.7	16.9	16.9	16.9	17.0
Cond. (µs/cm)	247	247	247	247	246	247
Turb. (NTU)	8.76	2.03			.58	
D. O. (mg/L)						
					*	

**FIELD OBSERVATIONS**

Weather: SUNNY 70°, WIND CALM

General Problems/Unusual Events: \_\_\_\_\_

Equipment Irregularities: \_\_\_\_\_

Container Irregularities: \_\_\_\_\_

Comments: COC #: C97-019-10

NO oil sheen

PIE PH	7.00	AT	25°C
STD PH	7.00	AT	25°C
POST PH	7.00	AT	23°C
STD PH	7.00	AT	25°C

Well capped and locked:  Yes  No      Samples preserved with ice:  Yes  No

Samples Surveyed for Gamma Radiation by RPTs:  Yes  No

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PAGE 85

Data Recorded by: D.B. BREWINGTON (RES) NPB

Data Checked by: R2 SICKLE R.J. SICKLE

Date: 5/29/97

Date: 5-30-97

# GROUNDWATER SAMPLE REPORT

Project: 100-KR-4 IRM Groundwater Sampling FY1997 / <i>Surv</i>		Date: <i>5/29/97</i>	Page 1 of 2
Sampling CY Quarter: 1997/2		Calculations: <i>NA</i>	
Well Number: 199-K-117A			
Total Purge Volume (gal): <i>NA</i>	Purge Flow Rate (gal/min): <i>NA</i>		
Hydrostar <input type="checkbox"/>	Submersible <input type="checkbox"/>	Time on: <i>NA Kabis sampler</i>	

### SAMPLES COLLECTED

- B0L020 (Filtered)	Mobile Laboratory	<i>30 30'</i>
3:40ml;G/P	Chromium - Hex (None)	
- B0L021 (Filtered)	Mobile Laboratory	<i>40'</i>
3:40ml;G/P	Chromium - Hex (None)	
- B0L022 (Filtered)	Mobile Laboratory	<i>54'</i>
3:40ml;G/P	Chromium - Hex (None)	
- B0L023 (Filtered)	Mobile Laboratory	<i>64'</i>
3:40ml;G/P	Chromium - Hex (None)	
<i>sp</i> B0L024 (Filtered)	Mobile Laboratory	
1:60ml;G/P	Chromium - Hex (None)	
<i>sp</i> B0L025 (Filtered)	Mobile Laboratory	
1:60ml;G/P	Chromium - Hex (None)	

HPT  
REGULATED TRUCK  
TOTAL ACTIVITY

*Collector*  
RT SICKLE (RFS)

Total No. Bottle: *24 31*

### FIELD MEASUREMENTS

Water Level (T/C): <i>20.28</i>		pH Serial No.: <i>970600017508</i>							
Cond./Therm. Serial No.: <i>920500008538</i>		D. O. Serial No.: <i>NA</i>							
Time	<i>1030</i>	<i>5/29/97 025</i>							
pH	<i>7.63</i>								
Temp. (°C)	<i>18.7</i>								
Cond. (µs/cm)	<i>268</i>								
Turb. (NTU)									
D. O. (mg/L)									
	<i>*</i>								

### FIELD OBSERVATIONS

Weather: *SUNNY, CLOUDY 72°, NO WIND*

General Problems/Unusual Events: \_\_\_\_\_

Equipment Irregularities: \_\_\_\_\_

Container Irregularities: \_\_\_\_\_

Comments: *CDC #: C97-019-13 C97-019-16 (DUP) C97-019-14 (MATRIX SPIKE) C97-019-15 (MATRIX SPIKE DUP) S97-005-31*  
*KABIS/4 INTERVALS*  
*NO OIL SHEEN*

Well capped and locked:  Yes  No      Samples preserved with ice:  Yes  No

Samples Surveyed for Gamma Radiation by RPTs:  Yes  No

Data Recorded by: *D.R. BREWINGTON (RFS) DRB*      Date: *5/29/97*

Data Checked by: *RZ Steffler R.J. Steffler*      Date: *6-2-97*

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# GROUNDWATER SAMPLE REPORT

Project: 100-KR-4 IRM Groundwater Sampling FY1997		Date: 5/29/97	Page 2 of 2
Sampling CY Quarter: 1997/2		Calculations:	
Well Number: 199-K-117A			
Total Purge Volume (gal):	Purge Flow Rate (gal/min):		
Hydrostar <input type="checkbox"/>	Submersible <input type="checkbox"/>		

### SAMPLES COLLECTED

- ✓ B0L026 (Filtered) Mobile Laboratory  
3:40ml;G/P Chromium - Hex (None)
- ✓ B0L027 (Filtered) Mobile Laboratory  
3:40ml;G/P Chromium - Hex (None)
- ✓ B0L028 (Filtered) Mobile Laboratory  
3:40ml;G/P Chromium - Hex (None)
- ✓ B0L029 (Filtered) Mobile Laboratory  
3:40ml;G/P Chromium - Hex (None)

HPT  
REGULATED TRUCK  
TOTAL ACTIVITY

Refer to pg 1 IRM  
GROUNDWATER  
SAMPLING

Total No. Bottle: \_\_\_\_\_

FIELD MEASUREMENTS											
Water Level (TOC):						pH Serial No.:					
Cond./Therm. Serial No.:						D. O. Serial No.:					
Time											
pH											
Temp. (°C)											
Cond. (µs/cm)											
Turb (NTU)											
D. O. (mg/L)											

FIELD OBSERVATIONS	
Weather: _____	
General Problems/Unusual Events: _____	
Equipment Irregularities: _____	
Container Irregularities: _____	
Comments: CJC #: C97-019-13 C97-019-16 (DUP) C97-019-14 (MATRIX SPIKE) C97-019-15 (MATRIX SPIKE DUP) S97-005-31 <u>KARIS/4 INTERVALS</u>	

Well capped and locked: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples preserved with ice: <input type="checkbox"/> Yes <input type="checkbox"/> No
Samples Surveyed for Gamma Radiation by RPTs: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Data Recorded by: <u>D.R. BREWINGTON (REC'D)</u>	Date: <u>5/29/97</u>
Data Checked by: <u>R.E. Stiller R.J. Stiller</u>	Date: <u>6-2-97</u>

# GROUNDWATER SAMPLE REPORT

Project: 100-KR-4 IRM Groundwater Sampling FY1997 / <i>Surv</i>		Date: <i>5/29/97</i>	Page 1 of 1
Sampling CY Quarter: 1997/2		Calculations: $141/3 = 47/5 = 9.4 \text{ min}$	
Well Number: 199-K-18			
Total Purge Volume (gal): <i>135</i>	Purge Flow Rate (gal/min): <i>5</i>		
Hydrostar <input type="checkbox"/> Submersible <input checked="" type="checkbox"/>	Time on: <i>1114</i>	<i>1110</i> / PURGE	<i>1135</i> / SAMPLE
		<i>1114</i> /	<i>1141</i> /

SAMPLES COLLECTED

B0L032 (Filtered) Mobile Laboratory  
1.60ml/G/P Chromium - Hex (None)

Collector  
*RT Sickle*

Total No. Bottle: *5*

*c/c 1280*

FIELD MEASUREMENTS								
Water Level (T/C): <i>15.29 pp</i>					pH Serial No.: <i>970600017508</i>			
Cond./Therm. Serial No.: <i>920500008538</i>					D. O. Serial No.: <i>NA</i>			
Time	<i>1116</i>	<i>1120</i>	<i>1123</i>	<i>1129</i>	<i>1132</i>	<i>1134</i>	<i>1140</i>	<i>1221/17</i>
pH	<i>8.76</i>	<i>8.45</i>	<i>8.26</i>	<i>8.26</i>	<i>8.24</i>	<i>8.25</i>	<i>8.17</i>	
Temp. (°C)	<i>18</i>	<i>18.1</i>	<i>18.7</i>	<i>18.4</i>	<i>18.1</i>	<i>17.9</i>	<i>18.7</i>	
Cond. (µs/cm)	<i>416</i>	<i>494</i>	<i>532</i>	<i>545</i>	<i>544</i>	<i>549</i>	<i>555</i>	
Turb. (NTU)	<i>247</i>	<i>249</i>	<i>77</i>	<i>37.7</i>	<i>10.1</i>	<i>6.54</i>		
D. O. (mg/L)								

### FIELD OBSERVATIONS

Weather: *SUNNY 76°, WIND CALM*

General Problems/Unusual Events: \_\_\_\_\_

Equipment Irregularities: \_\_\_\_\_

Container Irregularities: \_\_\_\_\_

Comments: *CDC #: C97-019-11 597-005-32 597-005-33*  
*NO oil sheen*

Well capped and locked:  Yes  No      Samples preserved with ice:  Yes  No

Samples Surveyed for Gamma Radiation by RPTs:  Yes  No

Data Recorded by: *D.R. BREWINGTON (RFS) DRB*      Date: *5/29/97*

Data Checked by: *RZ Sickle R.J. Sickle*      Date: *5-30-97*

*LOG B50K  
WH-2-N-205-F#63  
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# GROUNDWATER SAMPLE REPORT

Project: 100-KR-4 IRM Groundwater Sampling FY1997		Date: 5/29/97	Page 1 of 1
Sampling CY Quarter: 1997/2		Calculations: 153 NA Date 5/29/97	
Well Number: 199-K-20			
Total Purge Volume (gal): NA	Purge Flow Rate (gal/min): NA		
Hydrostar <input type="checkbox"/> Submersible <input type="checkbox"/>	Time on: NA		Boiler <del>REDUCE PURGE</del> NA Date 5/29/97

## SAMPLES COLLECTED

BOL033 (Filtered) Mobile Laboratory  
1;60ml;G/P Chromium - Hex (None)

Collector  
RT Sickle

Total No. Bottles: 1

CIC 1010

## FIELD MEASUREMENTS

Water Level (TOC): 27.03 TOC				pH Serial No.: 920600017508			
Cond./Therm. Serial No.: 920500008538				D. O. Serial No.: NA			
Time	1206	1208	1210				
pH	7.19	7.54	7.217-86				
Temp. (°C)	21.11	20.01	19.5				
Cond. (µs/cm)	363	363	362				
Turb. (NTU)		6.54	20.1				
D. O. (mg/L)							
		*					

## FIELD OBSERVATIONS

Weather: SUNNY 78°, WIND CALM

General Problems/Unusual Events: \_\_\_\_\_

Equipment Irregularities: \_\_\_\_\_

Container Irregularities: \_\_\_\_\_

Comments: COC #: C97-019-12  
No oil seen

1<sup>st</sup> PH 7.08 AT 23°C  
 5<sup>th</sup> PH 7.00 AT 20°C  
 LAST WELL

Well capped and locked:  Yes  No      Samples preserved with ice:  Yes  No

Samples Surveyed for Gamma Radiation by RPTs:  Yes  No

Data Recorded by: D.R. BREWINGTON (RFS) *DRB*      Date: 5/29/97

Data Checked by: *RZ Sittler* *R.J. Sickle*      Date: 5-30-97

LOG BOOK  
WHC-W-205 #63  
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